

p2500usq.ST25.txt
SEQUENCE LISTING

<110> Medical Research Council
Choo, Yen
Klug, Aaron
Isalan, Mark

<120> Nucleic Acid Binding Polypeptide Library

<130> 71278/264974

<140> US 09/424,482

<141> 1999-11-23

<150> GB9710809.6

<151> 1997-05-23

<150> PCT/GB98/01510

<151> 1998-05-25

<160> 19

<170> PatentIn version 3.0

<210> 1

<211> 9

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence: LIB-A DNA sorting sequence

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<222> (2)..(4)

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<400> 1
gnnnccggcg
9

<210> 2

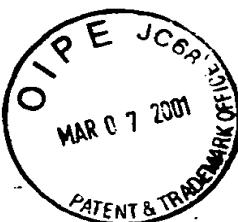
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<213> Artificial

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<223> Description of Artificial Sequence: LIB-B DNA sorting sequence



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<220>
<221> variation
<222> (3)..(4)
<223> n is any other nucleotide

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gcnnncggcg
9

<210> 3
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Z | <400> 3
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9

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<222> (1)..(2)
<223> Xaa is any amino acid

<220>
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<220>

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<221> SITE
<222> (10)..(23)
<223> Xaa is any amino acid

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<223> 0-2 residues may be missing

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3)
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<222> (31)..(31)
<223> X is His or Cys

<400> 4

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

<210> 5
<211> 24
<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Structure B

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<221> SITE

<222> (1)..(1)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (3)..(6)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (8)..(10)

<223> Xaa is any amino acid

<220>

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<222> (12)..(16)

<223> Xaa is any amino acid

(b)
<220>

<221> SITE

<222> (18)..(19)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (21)..(23)

<223> Xaa is any amino acid

<220>

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<222> (3)..(6)

<223> 0-2 residues may be missing

<220>

<221> VARIANT

<222> (8)..(10)

<223> 0-1 residue may be missing

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<400> 5

Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His
20

<210> 6

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Linker

<400> 6

Thr Gly Glu Lys
1

<210> 7

<211> 5

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: Linker

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Thr Gly Glu Lys Pro
1 5

<210> 8

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Consensus structure

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

<210> 9

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<211> 29

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Consensus structure

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Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 10

<211> 6

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Leader peptide

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Met Ala Glu Glu Lys Pro
1 5

b1
<210> 11

<211> 9

<212> DNA

<213> Artificial

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<221> variation

<222> (1)..(5)

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<400> 11

nnnnnnggcg

9

<210> 12

<211> 9

<212> DNA

<213> Artificial

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<220>
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<400> 12
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9

<210> 13
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<220>
<223> Description of Artificial Sequence: Zinc finger-DNA interaction sequence

<400> 13
acgcccacg
9

B
<210> 14
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Zinc finger-DNA interaction sequence

<400> 14
gcgtgggcg
9

<210> 15
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Zinc finger-DNA interaction library designed sequence

<220>
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acgcccgnnn
9

<210> 16
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<213> Artificial

<220>
<223> Description of artificial sequence: LIB-A & LIB-B Zinc finger

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Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg
1 5 10 15

Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
20 25 30

Gly Gln Lys Pro
35

B1
<210> 17
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Description of artificial sequence: LIB-A & LIB-B Zinc finger 2

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<221> VARIANT
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<223> Xaa is any amino acid

<400> 17

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asp Leu
1 5 10 15

Thr Xaa His Ile Arg Thr His Thr Gly Glu Lys Pro
20 25

<210> 18
<211> 28

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<212> PRT
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<220>
<223> Description of Artificial Sequence: LIB-B Zinc finger 3

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<220>
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<222> (14)..(14)
<223> Xaa is any amino acid

<400> 18

33
Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Ser Xaa Asp Arg
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Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
20 25

<210> 19
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Description of artificial sequence: LIB-A Zinc finger 3

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<400> 19

Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Xaa Xaa Xaa Arg
1 5 10 15

Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
20 25